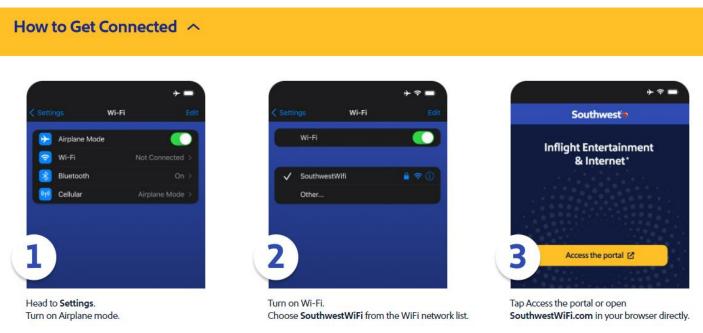
Exhibit 12 to Complaint Intellectual Ventures II LLC

Example Southwest Count 5 Systems and Services U.S. Patent No. 7,324,469 ("'469 Patent")

The Accused Systems and Services include without limitation Southwest systems and services that provide onboard WiFi in its airplanes; all past, current, and future systems and services that operate in the same or substantially similar manner as the specifically identified systems and services; and all past, current, and future Southwest systems and services that have the same or substantially similar features as the specifically identified systems and services ("Example Southwest Count 5 Systems and Services").

On information and belief, the Southwest Systems and Services provide onboard WiFi in its airplanes.



Source: https://www.southwest.com/inflight-entertainment-portal/.

¹ All sources cited in this document were publicly accessible as of the filing date of the Complaint.

2

We're excited to announce that as of yesterday, March 9, 2023, our first aircraft equipped with hardware from our new WiFi vendor, Viasat, has entered service. Viasat is an industry leader, and we're excited about the increased connectivity and reliability that Viasat will provide. As we prepare for additional Viasat-equipped aircraft deliveries, we're also making significant progress updating our existing fleet with new Anuvu hardware (our original WiFi vendor). We have now upgraded more than 400 aircraft and are well on our way to upgrading the entire fleet by the third quarter of this year.

Between our upgraded Anuvu hardware and integration of Viasat, we're bringing a faster, more reliable WiFi experience. In addition to improved WiFi quality, Viasat offers Customers the ability to trade paid internet connectivity between personal devices (known as "device swapping"). For example, if a Customer has paid for Internet using their laptop, they can use the "swap device" function in the Inflight Entertainment Portal to switch connectivity to their phone.

	Anuvu Legacy	Anuvu Upgraded	Viasat
Improved Speeds and Reliability	*	✓	✓
Streaming (when authenticated for Internet)	*	✓	✓
Device Swap	*	*	✓
Free Entertainment, Texting, and Flight Tracker	✓	√	✓

Source: https://www.swamedia.com/southwest-stories/wifi-modernization-first-viasat-aircraft-enters-service-MC5XTXWTTLWNESJDQR4LZQBIDI2I.

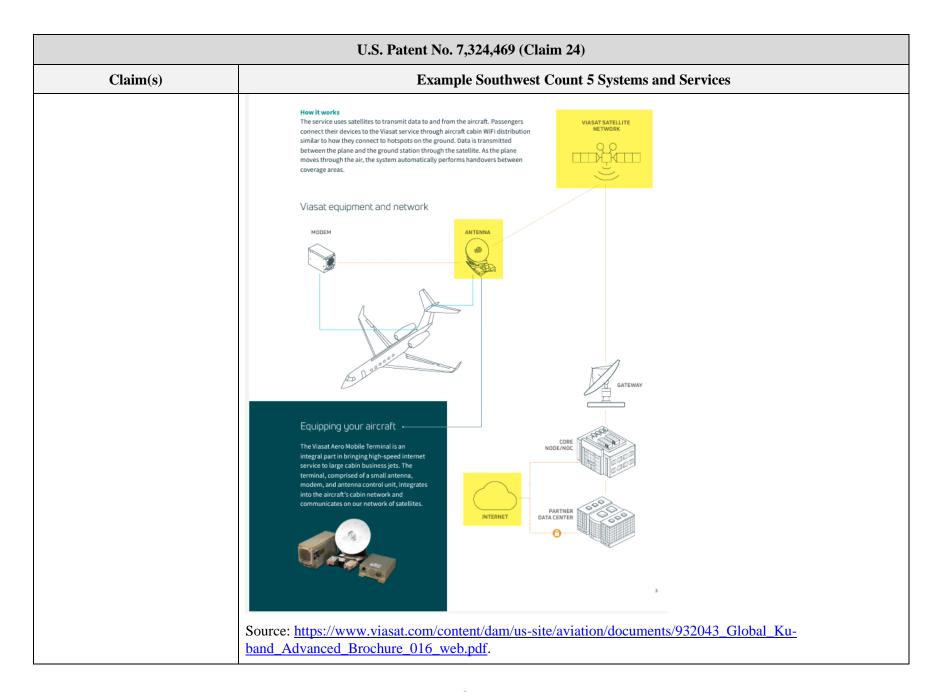
U.S. Patent No. 7,324,469 (Claim 24)					
Claim(s)	Example Southwest Count 5 Systems and Services				
[24.pre] An Internet Hotspot comprising:	To the extent this preamble is limiting, on information and belief, the Southwest Count 5 Systems and Services include an Internet Hotspot.				
	On information and belief, Southwest has partnered with Viasat and Anuvu ² to provide its passengers with inflight Wi-Fi connectivity. Southwest aircraft are equipped with Viasat and Anuvu's In-Flight Connectivity system.				
	We're excited to announce that as of yesterday, March 9, 2023, our first aircraft equipped with hardware from our new WiFi vendor, Viasat, has entered service. Viasat is an industry leader, and we're excited about the increased connectivity and reliability that Viasat will provide. As we prepare for additional Viasat-equipped aircraft deliveries, we're also making significant progress updating our existing fleet with new Anuvu hardware (our original WiFi vendor). We have now upgraded more than 400 aircraft and are well on our way to upgrading the entire fleet by the third quarter of this year.				
	Between our upgraded Anuvu hardware and integration of Viasat, we're bringing a faster, more reliable WiFi experience. In addition to improved WiFi quality, Viasat offers Customers the ability to trade paid internet connectivity between personal devices (known as "device swapping"). For example, if a Customer has paid for Internet using their laptop, they can use the "swap device" function in the Inflight Entertainment Portal to switch connectivity to their phone.				
		Anuvu Legacy	Anuvu Upgraded	Viasat	
	Improved Speeds and Reliability	×	✓	✓	
	Streaming (when authenticated for Internet)	\checkmark			
	Device Swap	×	*	\checkmark	
	Free Entertainment, Texting, and Flight Tracker	✓	✓	✓	
	Source: https://www.swan		ories/wifi-modernization-first-	viasat-aircraft-enters-service-	

² Based on publicly-available information, Plaintiffs have identified Viasat and Anuvu as Wi-Fi and/or In-Flight Connectivity (IFC) providers for Southwest. To the extent Southwest has used other IFC providers to provide satellite-based Internet connectivity to its customers, Plaintiffs reserve right to investigate such use.

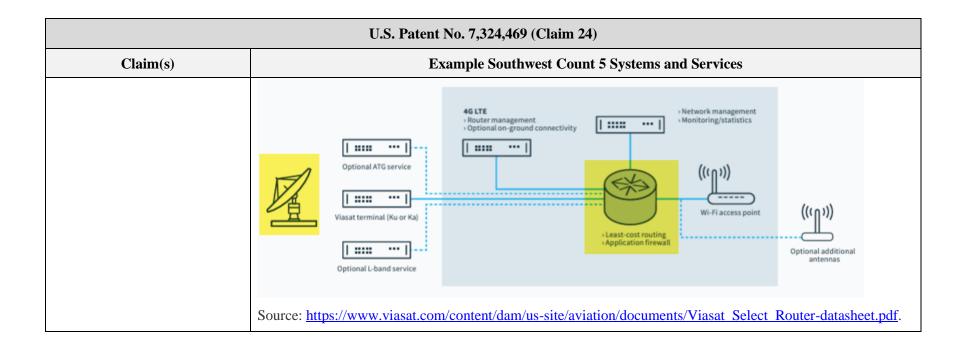
U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services			
	DOES SOUTHWEST USE VIASAT?			
	Yes. Southwest airlines announced in March 2023 that new aircraft with the airline will come with factory-installed Wi-Fi connectivity powered by Viasat. The Ka-band connectivity will offer faster, reliable Wi-Fi network connections for Southwest passengers. Viasat currently offers In-Flight Connectivity services to Delta Air Lines, JetBlue, American and United. The first Viasat-equipped aircraft entered service in March 2023 for various North American routes. Viasat is proud to have been selected as the provider in this partnership.			
	The connectivity will use three large Ka-band satellites, Viasat-1, Viasat-2 and the recently launched Viasat-3 once it completes in-orbit testing, which is expected to be late summer or the fall of 2023. Viasat is a global communications company that provides high-speed satellite internet and other communication services. It operates a satellite network that delivers broadband internet access to residential, commercial, and government customers, particularly in areas where traditional wired internet infrastructure is limited or unavailable. Source: https://www.rsinc.com/does-southwest-use-viasat.php.			
	Southwest, serving more than 100 million passengers each year, continues to offer the most comprehensive inflight entertainment and connectivity experience at all phases of flight, which now includes:			
	 Inflight WiFi available from gate-to-gate for \$8 per device per day iMessage, available from gate-to-gate for \$2 per day, for iPhone users with iOS5 or later Live Television streamed directly to passengers' own personal electronic devices, free of charge, courtesy of DISH Video-on-Demand television content and movies 			
	Powered by Global Eagle's satellite-based connectivity platform, the new service—in sync with gate-to-gate Wi-Fi—is also optimized to work in all phases of flight, including on the ground.			
	Source: https://www.anuvu.com/our-company/press-releases/detail/30/southwest-airlines-and-global-eagle-entertainment-announce-launch-of-gate-to-gate-messaging-on-all.			

U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services			
[24.a] a satellite dish communicating with the	On information and belief, the Southwest Count 5 Systems and Services include a satellite dish communicating with the Internet via one or more data links with a satellite.			
Internet via one or more data links with a satellite;	On information and belief, Southwest's aircraft are equipped with Viasat In-Flight Connectivity (IFC). This functionality uses satellite technology that communicates with the Internet through data links. We're excited to announce that as of yesterday, March 9, 2023, our first aircraft equipped with hardware from our new WiFi vendor, Viasat, has entered service. Viasat is an industry leader, and we're excited about the increased connectivity and reliability that Viasat will provide. As we prepare for additional Viasat-equipped aircraft deliveries, we're also making significant progress updating our existing fleet with new Anuvu hardware (our original WiFi vendor). We have now upgraded more than 400 aircraft and are well on our way to upgrading the entire fleet by the third quarter of this year. Between our upgraded Anuvu hardware and integration of Viasat, we're bringing a faster, more reliable WiFi experience. In addition to improved WiFi quality, Viasat offers Customers the ability to trade paid internet connectivity between personal devices (known as "device swapping"). For example, if a Customer has paid for Internet using their laptop, they can use the "swap device" function in the Inflight Entertainment Portal to switch connectivity to their phone.			
		Anuvu Legacy	Anuvu Upgraded	Viasat
	Improved Speeds and Reliability	×	✓	✓
	Streaming (when authenticated for Internet) Device Swap ** ** ** ** ** ** ** ** **			
	Free Entertainment, Texting, and Flight Tracker	✓	✓	✓
	Source:			

U.S. Patent No. 7,324,469 (Claim 24)			
Claim(s)	Example Southwest Count 5 Systems and Services		
	DOES SOUTHWEST USE VIASAT?		
	Yes. Southwest airlines announced in March 2023 that new aircraft with the airline will come with factory-installed Wi-Fi connectivity powered by Viasat. The Ka-band connectivity will offer faster, reliable Wi-Fi network connections for Southwest passengers. Viasat currently offers In-Flight Connectivity services to Delta Air Lines, JetBlue, American and United. The first Viasat-equipped aircraft entered service in March 2023 for various North American routes. Viasat is proud to have been selected as the provider in this partnership. The connectivity will use three large Ka-band satellites, Viasat-1, Viasat-2 and the recently launched Viasat-3 once it completes in-orbit testing, which is expected to be late summer or the fall of 2023. Viasat is a global communications company that provides high-speed satellite internet and other		
	communication services. It operates a satellite network that delivers broadband internet access to residential, commercial, and government customers, particularly in areas where traditional wired internet infrastructure is limited or unavailable. Source: https://www.rsinc.com/does-southwest-use-viasat.php .		
	ViaSat-3 is a constellation of three ultra-high-capacity Ka-band geostationary satellites currently in		
	production. The first and second payloads have already been sent to Boeing Satellite Systems for integration with the 702MP+ bus (spacecraft). This is a modified version of Boeing's 702 bus with a good deal more power (greater than 25kW per satellite), and they are expected to make the ViaSat-3 satellites some of the most high-powered ones ever built. To produce that power, the four solar panels of the traditional 702MP have been bumped to eight. These solar cells are similar to the ones used in the original Apollo moon missions and have powered more than 1,000 satellites around the globe.		
	Source: https://news.viasat.com/blog/scn/what-is-viasat3 .		



U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services			
	On information and belief, Anuvu functions similarly to Viasat. Our hybrid satellite network combines our own satellites with capacity on over 50 third-party satellites, providing scalable capacity, reliability and redundancy, and cost-effective solutions for our customers.			
	As the industry pioneer in regional inflight Connectivity and gigabit-class cruise ship connectivity, Anuvu has continuously invested in new technologies to keep pace with end-user expectations. We recognize the importance of reliable, fast, global connectivity for our customers around the world. Our hybrid network, consisting of high-throughput geostationary satellites and 4G/5G mobile connectivity, builds on the industry's first and most capable SD-WAN platform optimized for aviation and maritime applications. Source: https://www.anuvu.com/our-portfolio/connectivity .			
[24.b] at least one router operatively coupled to the satellite dish;	On information and belief, the Southwest Count 5 Systems and Services include at least one router operatively coupled to the satellite dish. On information and belief, Southwest's aircraft are equipped with Wi-Fi and/or IFC that includes a router that is connected to a satellite antenna mounted about the plane that communicates using a satellite and ground stations. Viasat Select Router			
	Redefining the in-flight connectivity experience			

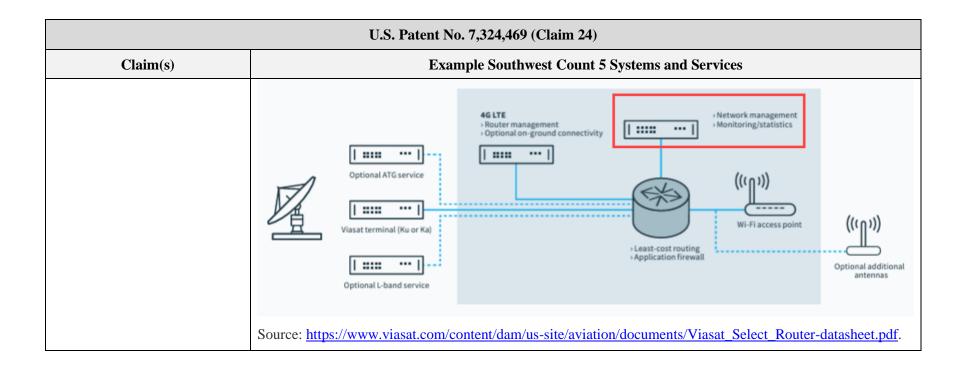


U.S. Patent No. 7,324,469 (Claim 24)			
Claim(s)	Example Southwest Count 5 Systems and Services		
	How it works The service uses satellites to transmit data to and from the aircraft. Passengers connect their devices to the Viasat service through aircraft cabin WiFi distribution similar to how they connect to hotspots on the ground. Data is transmitted between the plane and the ground station through the satellite. As the plane moves through the air, the system automatically performs handovers between coverage areas.		
	Viasat equipment and network		
	MODEM ANTENNA ANTENNA GATEWAY		
	Source: https://www.viasat.com/content/dam/us-site/aviation/documents/932043 Global Kuband_Advanced_Brochure_016_web.pdf.		

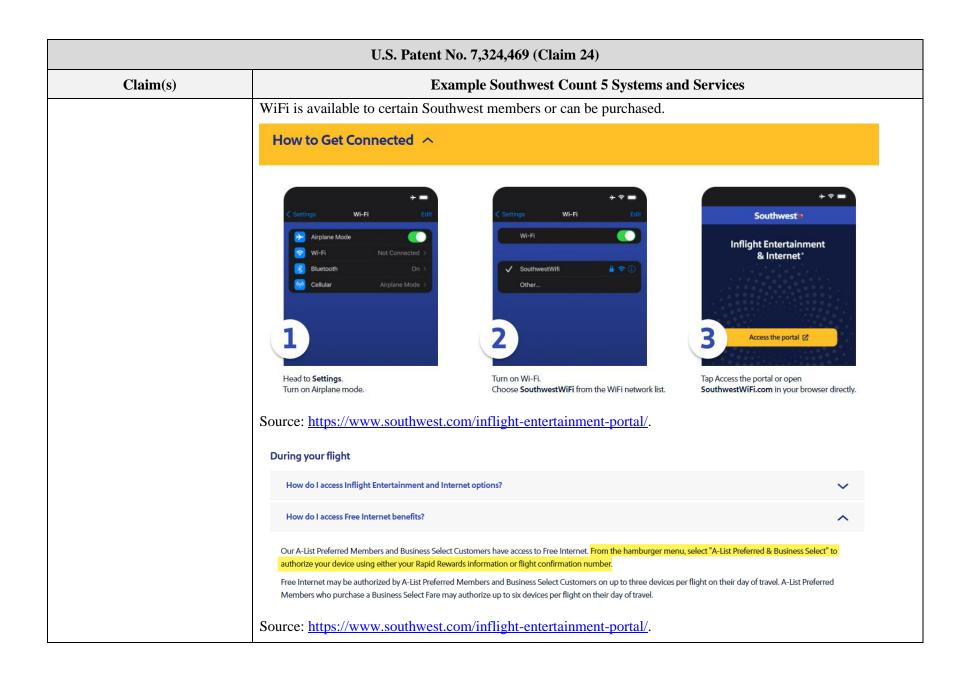
U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services			
Claim(s)	Rey features at a glance - smart, fully automated, multi-flak cabin connectivity enangement - integral 40,11t cellular data mode mor quick and easy remote support - small form factor, fitage mounted, fine-less design for maximum flookility and ease of installation - fluid in membroing and diagnotics - front panel VO includes dual mis-SHI side, USA, serial, Ethernet and Displayfort allowing for easy maintenance success - Source: https://www.viasaat.com/content/dam/us-site/aviation/documents/Viasaat Select Router-datasheet.pdf . On information and belief, Southwest offers WiFi solutions (through its IFC providers) that support satellite-based WiFi. We're excited to announce that as of yesterday, March 9, 2023, our first alicraft equipped with hardware from our new WiFi vendor, Viasaat, has entered service Viasat is an industry leader, and we're excited about the increased connectivity and reliability that Viasaat will provide. As we prepare for additional Viasat-equipped aircraft deliveries, we're also making significant progress updaiting our existing feet with new Annus hardware (our original WiFi vendor). We have now upgraded more than 400 aircraft and are well on our way to upgraded file the time feet by the third quarter of this year. - Between our upgraded Annus hardware and integration of Viasat, we're bringing a faster, more reliable WiFi experience, in addition to improved WiFi quality, Viasat offers Customers the ability to trade paid internet connectivity between personal devices (known as "device swapping"). For example, if a Customer has paid for internet using their laptop, they can use the "way device" function in the infligit Entertainment Portal to switch connectivity to their phone.			

U.S. Patent No. 7,324,469 (Claim 24)						
Claim(s)	Example Southwest Count 5 Systems and Services					
	Anuvu Legacy Anuvu Upgraded Viasat					
	Improved Speeds and Reliability	×	✓	✓		
	Streaming (when authenticated for Internet)	×	✓	✓		
	Device Swap	x	*	✓		
	Free Entertainment, Texting, and Flight Tracker					
	Source: https://www.rsinc.com/does-southwest-use-viasat-aircraft-enters-service-MC5XTXWTTLWNESJDQR4LZQBID121 . Yes. Southwest airlines announced in March 2023 that new aircraft with the airline will come with factory-installed Wi-Fi connectivity powered by Viasat. The Ka-band connectivity will offer faster, reliable Wi-Fi network connections for Southwest passengers. Viasat currently offers In-Flight Connectivity services to Delta Air Lines, JetBlue, American and United. The first Viasat-equipped aircraft entered service in March 2023 for various North American routes. Viasat is proud to have been selected as the provider in this partnership. The connectivity will use three large Ka-band satellites, Viasat-1, Viasat-2 and the recently launched Viasat-3 once it completes in-orbit testing, which is expected to be late summer or the fall of 2023. Viasat is a global communications company that provides high-speed satellite internet and other communication services. It operates a satellite network that delivers broadband internet access to residential, commercial, and government customers, particularly in areas where traditional wired internet infrastructure is limited or unavailable. Source: https://www.rsinc.com/does-southwest-use-viasat.php .					

U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services			
	Our hybrid satellite network combines our own satellites with capacity on over 50 third-party satellites, providing scalable capacity, reliability and redundancy, and cost-effective solutions for our customers.			
	As the industry pioneer in regional inflight Connectivity and gigabit-class cruise ship connectivity, Anuvu has continuously invested in new technologies to keep pace with end-user expectations. We recognize the importance of reliable, fast, global connectivity for our customers around the world. Our hybrid network, consisting of high-throughput geostationary satellites and 4G/5G mobile connectivity, builds on the industry's first and most capable SD-WAN platform optimized for aviation and maritime applications. Source: https://www.anuvu.com/our-portfolio/connectivity.			
[24.c] a subscriber access unit operatively coupled between the satellite dish and the at least one router, the subscriber access unit being capable of authenticating a subscription account associated with a user prior to allowing the user access to the Internet; and	On information and belief, the Southwest Count 5 Systems and Services include a subscriber access unit operatively coupled between the satellite dish and the at least one router, the subscriber access unit being capable of authenticating a subscription account associated with a user prior to allowing the user access to the Internet. On information and belief, the IFC includes a satellite antenna, multiple WAPs, and an onboard server that hosts information passenger-focused services.			



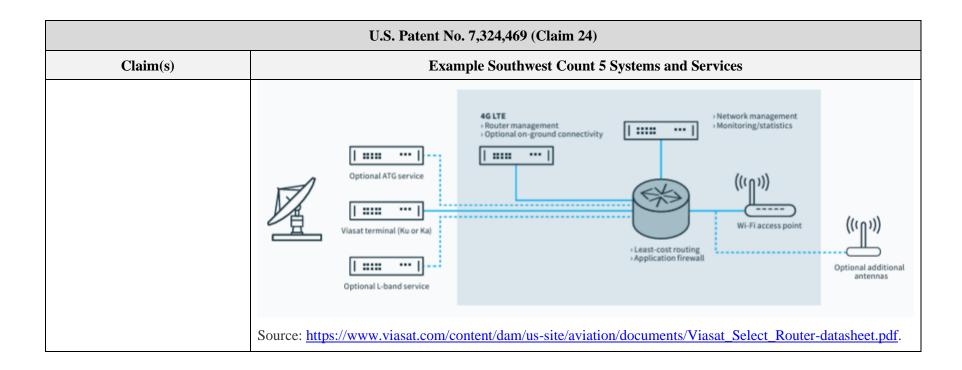
	U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services				
	How it works The service uses satellites to transmit data to and from the aircraft. Passengers connect their devices to the Viasat service through aircraft cabin WiFi distribution similar to how they connect to hotspots on the ground. Data is transmitted between the plane and the ground station through the satellite. As the plane moves through the air, the system automatically performs handovers between coverage areas.				
	Viasat equipment and network				
	MODEM ANTENNA Becomes GATEWAY				
	Source: https://www.viasat.com/content/dam/us-site/aviation/documents/932043_Global_Ku-band_Advanced_Brochure_016_web.pdf .				
	On information and belief, Southwest passengers authenticate themselves on the SouthwestWiFi.com web portal to access in-flight Wi-Fi using on-board server(s). The authentication completes when the user enters their login credentials on the portal. Limited free Wi-Fi is available to passengers, and upgraded high-speed				

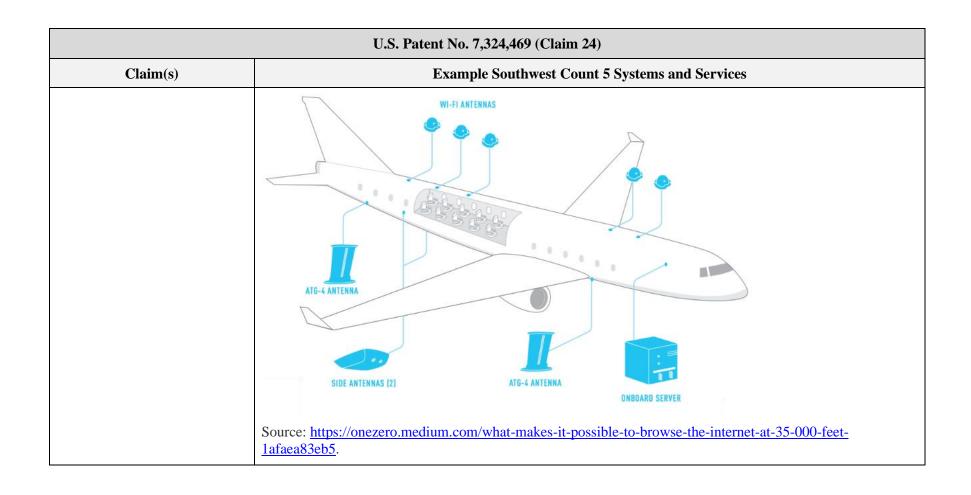


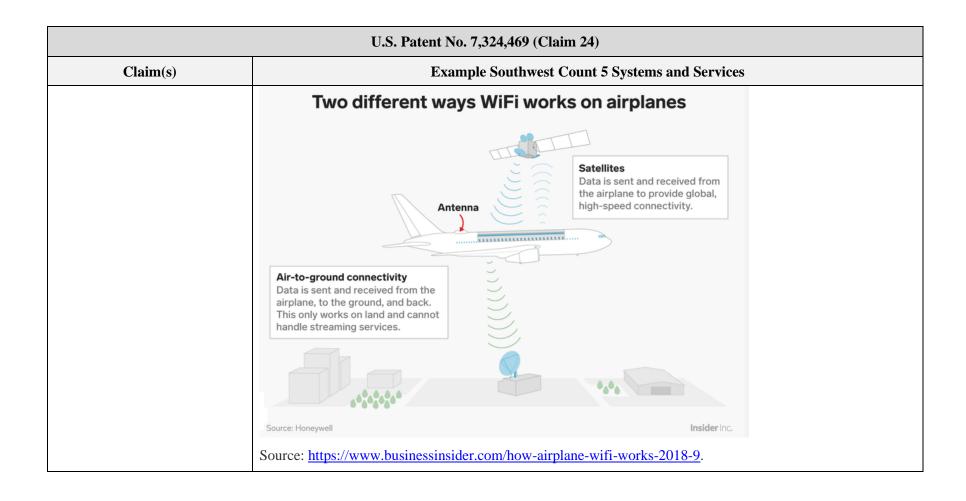
U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services			
[24.d] a web-ready device operatively coupled to the at least one router, the web-ready device having a browser application operating thereon for accessing the Internet;	On information and belief, the Southwest Count 5 Systems and Services include a web-ready device operatively coupled to the at least one router, the web-read device having a browser application operative thereon for accessing the Internet. On information and belieft, Southwest enables access to onboard WiFi through seatback and/or user d that include a browser application for Internet accessibility. How to Get Connected			
	Settings Wi-Fi Edit Airplane Mode Wi-Fi Not Connected > Bluetooth On > Cellular Airplane Mode > Head to Settings. Turn on Airplane mode.	Settings Wi-Fi Edit Wi-Fi SouthwestWifi Other Turn on Wi-Fi. Choose SouthwestWiFi from the WiFi network list.	Southwest Inflight Entertainment & Internet & Internet Tap Access the portal or open SouthwestWiFi.com in your browser directly.	
	Source: https://www.southwest.co	m/inflight-entertainment-portal/.		
	Free Entertainment ¹			
	We've got something for everyone. With a wide variety of new releases and long-time Customer favorites, all movies are viewable right in your brown sign-ups required!			
	Source: https://www.southwest.co	m/inflight-entertainment-portal/.		

U.S. Patent No. 7,324,469 (Claim 24)					
Claim(s)	Example Southwes	t Count 5 Systems and Services			
	Stay Connected Keeping you connected to what matters to you-even when you're in the air. Access the portal to enjoy free texting 2 and \$8 Internet.4				
	Free Texting	\$8 Internet			
	Keep those texts flying with iMessage and WhatsApp on your personal device. Visit the Texting page in Portal to activate service.	Go online to check email, browse social media, or snag a dinner reservation for just \$8 (free for our A-List Preferred Members and Business Select Customers) per device from takeoff to landing.			
		Note: In order to provide a better experience, we may prohibit access to certain high-bandwidth applications, websites, and video conferencing services. In consideration of the public environment onboard we may also restrict potentially offensive online content.			
	Source: https://www.southwest.com/inflight-ente	ertainment-portal/.			
[24.e] wherein the satellite dish, at least one router and the subscriber access unit are located in a remote location a experiencing a relatively high volume of transient traffic;		at 5 Systems and Services include a satellite dish, at least one tellite dish, at least one router and the subscriber access unit are atively high volume of transient traffic.			

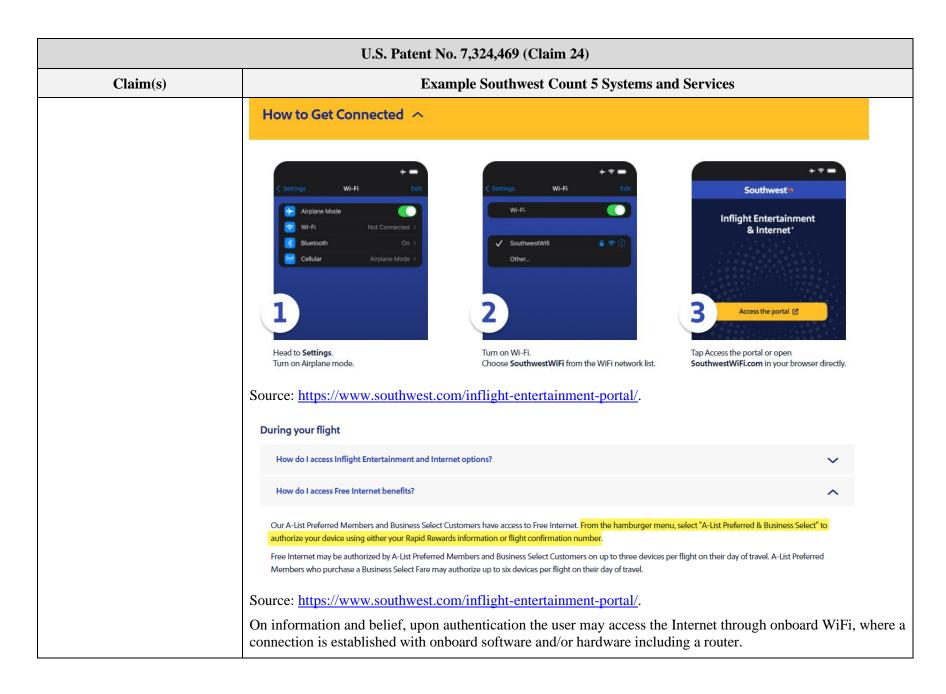
U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services			
	How it works The service uses satellites to transmit data to and from the aircraft. Passengers connect their devices to the Viasat service through aircraft cabin WiFi distribution similar to how they connect to hotspots on the ground. Data is transmitted between the plane and the ground station through the satellite. As the plane moves through the air, the system automatically performs handovers between coverage areas.			
	Viasat equipment and network			
	MODEM ANTENNA ANTENNA GATEWAY			
	Source: https://www.viasat.com/content/dam/us-site/aviation/documents/932043_Global_Kuband_Advanced_Brochure_016_web.pdf .			

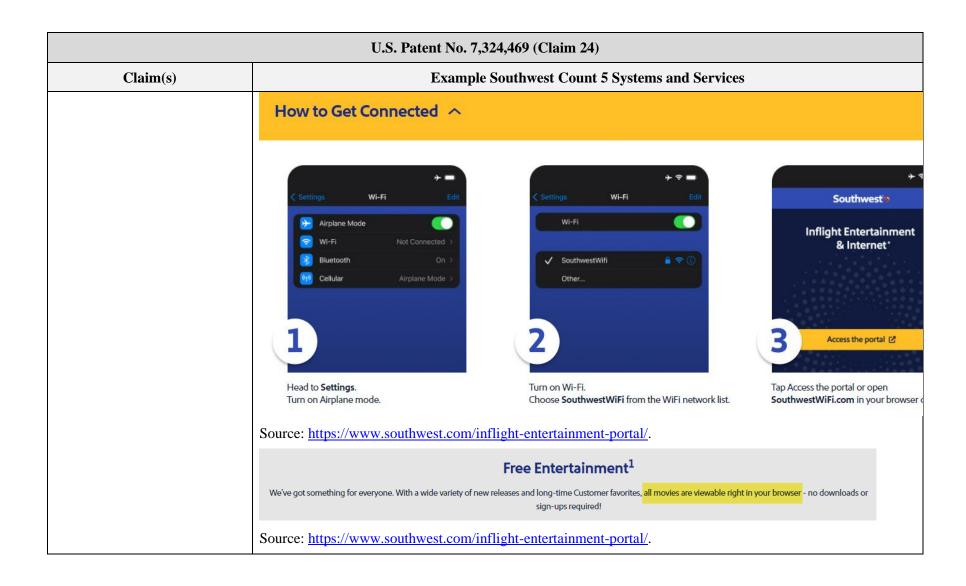






		U.S. P	atent N	No. 7,324,40	69 (Claim 24)	
Claim(s)	Example Southwest Count 5 Systems and Services					
	Southwest Airlines fleet					
	Aircraft	In service	Orders	Passengers	Notes	
	Boeing 737-700	374	_	143	Launch customer and largest operator. ^[15] Older aircraft to be replaced by Boeing 737 MAX 7.	
	Boeing 737-800	205	_	175	To be replaced by Boeing 737 MAX 8.	
	Boeing 737 MAX 7	_	307	150 ^[33]	Deliveries begin in 2025. ^[34] To replace older Boeing 737-700s. ^[35]	
	Boeing 737 MAX 8	239	166	175	Largest Boeing 737 MAX operator. To replace Boeing 737-700s. ^[35]	
	Total	818	473			
	Source: https://er	ı.wikiped	dia.org/	wiki/South	west_Airlines_fleet.	
[24.f] wherein the user may authenticate the subscription account and access the Internet at the remote location by establishing a data connection between the web-ready device and the router.	authenticate the connection betwee On information a portal to access in portal through sea	subscripeen the wind belies not belies atback as	otion ac yeb-read f, South Wi-Fi. I nd/or us	count and dy device an west passer fhe authent ser devices.	access the Internet at the remark the router. Ingers authenticate themselves of ication completes when the user	include WiFi where the user may ote location by establishing a data in the SouthwestWiFi.com web renters their login credentials on the to passengers, and upgraded high-





U.S. Patent No. 7,324,469 (Claim 24)					
Claim(s)	Example Southwest Count 5 Systems and Services Stay Connected Keeping you connected to what matters to you-even when you're in the air. Access the portal to enjoy free texting ² and \$8 Internet. ⁴				
	Free Texting	\$8 Internet			
	Keep those texts flying with iMessage and WhatsApp on your personal device. Visit the Texting page in Portal to activate service.	Go online to check email, browse social media, or snag a dinner reservation for just \$8 (free for our A-List Preferred Members and Business Select Customers) per device from takeoff to landing.			
		Note: In order to provide a better experience, we may prohibit access to certain high-bandwidth applications, websites, and video conferencing services. In consideration of the public environment onboard we may also restrict potentially offensive online content.			
	Source: https://www.southwest.com/inflight-ent	ertainment-portal/.			

U.S. Patent No. 7,324,469 (Claim 24)			
Claim(s)	Example Southwest Count 5 Systems and Services		
	Source: https://onezero.medium.com/what-makes-it-possible-to-browse-the-internet-at-35-000-feet-lafaea83eb5. On information and belief, Southwest offers WiFi solutions on its airplanes that support satellite-based WiFi.		

U.S. Patent No. 7,324,469 (Claim 24)				
Claim(s)	Example Southwest Count 5 Systems and Services			
		Anuvu Legacy	Anuvu Upgraded	Viasat
	Improved Speeds and Reliability	×	✓	✓
	Streaming (when authenticated for Internet)	×	✓	\checkmark
	Device Swap	*	*	\checkmark
	Free Entertainment, Texting, and Flight Tracker	✓	✓	✓
	Yes. Southwest airlines announced in M Ka-band connectivity will offer faster, r to Delta Air Lines, JetBlue, American an proud to have been selected as the prov The connectivity will use three large Ke expected to be late summer or the fall of communication services. It operates as	March 2023 that new aircraft with the air reliable Wi-Fi network connections for Stand United. The first Viasat-equipped airc vider in this partnership. Be-band satellites, Viasat-1, Viasat-2 and of 2023. Viasat is a global communication satellite network that delivers broadban wired internet infrastructure is limited or	line will come with factory-installed Wi-Fi consociated with factory-installed Wi-Fi consociated with the service in March 2023 for various In the recently launched Viasat-3 once it completes company that provides high-speed satellites in dinternet access to residential, commercial, and runavailable.	n-Flight Connectivity services North American routes. Viasat is tes in-orbit testing, which is internet and other

U.S. Patent No. 7,324,469 (Claim 24)					
Example Southwest Count 5 Systems and Services					
Our hybrid satellite network combines our own satellites with capacity on over 50 third-party satellites, providing scalable capacity, reliability and redundancy, and cost-effective solutions for our customers. As the industry pioneer in regional Inflight Connectivity and gigabit-class cruise ship connectivity, Anuvu has continuously invested in new technologies to keep pace with end-user expectations. We recognize the importance of reliable, fast, global connectivity for our customers around the world. Our hybrid network, consisting of high-throughput geostationary satellites and 4G/5G mobile connectivity, builds on the industry's first and most capable SD-WAN platform optimized for aviation and maritime applications.					